

DEVELOPMENT SERVICES DEPARTMENT ENVIRONMENTAL COORDINATOR 450 110th AVENUE NE, P.O. BOX 90012 BELLEVUE, WA 98009-9012

DETERMINATION OF NON-SIGNIFICANCE

PROPONENT: AT&T Mobility
LOCATION OF PROPOSAL: 2803 156 th Avenue SE
DESCRIPTION OF PROPOSAL: Administrative Conditional Use approval to modify an existing WCF facility by adding 3 LTE antennas, replacing 6 panel antennas with 6 new panel antennas along with associated equipment on an existing 196 foot lattice tower.
FILE NUMBER: 12-108311 LA
The Environmental Coordinator of the City of Bellevue has determined that this proposal does not have a probable significant adverse impact upon the environment. An Environmental Impact Statement (EIS) is not required under RCW 43.21C.030(2)(C). This decision was made after the Bellevue Environmental Coordinator reviewed the completed environmental checklist and information filed with the Land Use Division of the Development Services Department. This information is available to the public on request.
There is no comment period for this DNS. There is a 14-day appeal period. Only persons who submitted written comments before the DNS was issued may appeal the decision. A written appeal must be filed in the City Clerk's office by 5:00 p.m. on
This DNS is issued after using the optional DNS process in WAC 197-11-355. There is no furthe comment period on the DNS. There is a 14-day appeal period. Only persons who submitted written comments before the DNS was issued may appeal the decision. A written appeal mus be filed in the City Clerk's Office by 5 p.m. on June 28, 2012.
This DNS is issued under WAC 197-11-340(2) and is subject to a 14-day comment period from the date below. Comments must be submitted by 5 p.m. on This DNS is also subject to appeal. A written appeal must be filed in the City Clerk's Office by 5 p.m on
This DNS may be withdrawn at any time if the proposal is modified so that it is likely to have significant adverse environmental impacts; if there is significant new information indicating, or on, a proposals probable significant adverse environmental impacts (unless a non-exempt license has been issued if the proposal is a private project): or if the DNS was procured by misrepresentation or lack of material disclosure.

OTHERS TO RECEIVE THIS DOCUMENT: State Department of Fish and Wildlife State Department of Ecology, Army Corps of Engineers Attorney General Muckleshoot Indian Tribe

Proposal Name: AT&T Phantom Lake 2

Proposal Address: 2803 156th Avenue SE

Proposal Description: Administrative Conditional Use approval to modify an

existing WCF facility by adding 3 LTE antennas, replacing 6 panel antennas with 6 new panel antennas along with associated equipment on an existing 196

foot lattice tower.

File Number: 12-108311 LA

Applicant: AT&T Mobility

Decisions Included: Administrative Conditional Use Permit (Process II)

Planner: Antoinette Pratt, Senior Planner, (425) 452-5374

State Environmental Policy Act

Threshold Determination: Determination of Non-Significance (DNS)

Carol V. Helland

Environmental Coordinator

Director's Recommendation: Approval with Conditions

Michael A. Brennan, Director

Development Services Department

Carol V. Helland. Land Use Director

Carol V. Heliand, Land Use Director

Application Date:

Public Notice (500 feet):

Minimum Comment Period: Bulletin Publication Date:

March 13, 2012

April 5, 2012 April 19, 2012

June 14, 2012

For information on how to appeal a proposal, visit Development Services at City Hall or call (425) 452-4570. Comments on State Environmental Policy Act (SEPA) Determinations can be made with or without appealing the proposal within the noted comment period for a SEPA Determination. Appeal of the Decision must be received in the City's Clerk's Office by 5 PM on the date noted for appeal of the decision.

I. Request/Proposal Description

AT&T requests Administrative Conditional Use approval to modify an existing wireless communication facility (WCF) and existing 196 foot lattice tower located on property owned by the Washington State Patrol (WSP). AT&T is proposing to add three (3) new long term evolution panels (4G) LTE, and replace 6 existing panel antennas with 6 new panel antennas on a new H-frame to upgrade its existing installation on this tower. The proposed change will add 4G technology to the site and would expand AT&T's 4G footprint in the Bellevue. AT&T's research shows that this site currently has a very high volume of 3G traffic. The new 4G technology will improve the internet/data experience for customers in the area.

AT&T also proposes to mount ancillary equipment in the form of six (6) remote radio head (RRH) units along with associated cabling. AT&T will replace six (6) existing Tower Mounted Amplifiers (TMA's) with six (6) new TMA's. A new LTE equipment cabinet will be added to the existing equipment compound located at the base of the lattice tower. However, no expansion will occur to this compound. AT&T's radio frequency (RF) engineer has reviewed this proposal and determined that this modification will not interfere with other communication facilities. It will also transmit within the range specified by the FCC. The RF engineer's report and propagation maps are available for viewing in the City's project file.

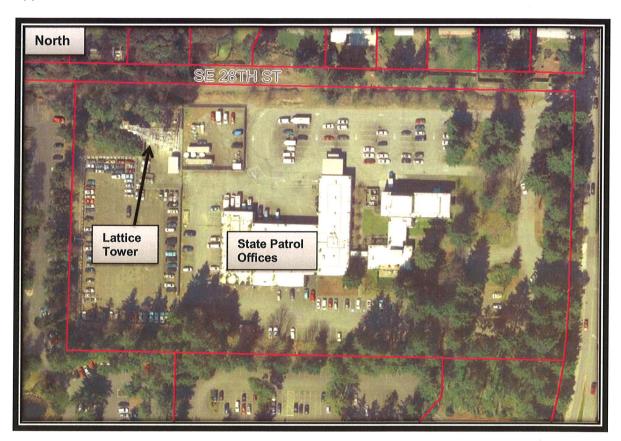
II. Site Description and Context



The site is considered a multi-fronting lot that fronts on two streets: SE 28th Street and 156th Avenue SE. The site is surrounded by single-family uses to the north and Office uses to the south, west, and east. The project site lies within the Single Family Residential (R-5) land use district as shown on the zoning map above. Wireless communication facilities (WCF's) are permitted within residential districts on private property based on Land Use Code (LUC) 20.10.440, footnote 14:

(14) Wireless communication facilities (WCFs) are not permitted on any residential structure, undeveloped site located in a residential land use district, or site that is developed with a residential use. This note does not prohibit locating WCF: a) on any residential structure or undeveloped site in R-20 or R-30 Land Use Districts; or b) on any nonresidential structure (i.e., churches, schools, public facility structures, utility poles, etc.) or in public rights-of-way in any residential land use district. (Emphasis added)

The WSP has a lattice tower located near the northwest corner of their property. This tower was erected in the 1970's to meet their transmission needs. In addition to the WSP's wireless/microwave technology, there are three existing wireless carriers co-located on this tower. No height extension is necessary with this application.



III. Environmental Impacts of the Proposal

The environmental review (refer to project file, City Hall Records Office) indicates no probability of significant adverse environmental impacts occurring as a result of the proposal. The Environmental Checklist submitted with the application adequately discloses expected environmental impacts associated with the project. The City codes and requirements, including the Clear and Grade Code, Utility Code, Land Use Code, Noise Ordinance, Building Code and other construction codes adequately mitigate expected environmental impacts. Therefore, issuance of a Determination of Non-Significance is the appropriate threshold determination under the State Environmental Policy Act requirements.

IV. Public Comment and Response

As of the date of this staff report, no written correspondence has been received on this proposal.

IV. Applicable Decision Criteria / Findings and Conclusions

Compliance with the decision criteria of Land Use Code section 20.30E.140 is discussed below.

A. The administrative conditional use is consistent with the Comprehensive Plan.

<u>Finding</u>: This proposal is consistent with Bellevue's Comprehensive Plan policies regarding such facilities. The Comprehensive Plan policies listed below from the Utility Element have been considered in support of the City's decision regarding this site:

- (1) UT-40. Require the reasonable screening and/or architecturally compatible integration of all new above-ground utility facilities.
- (2) UT-40a. Protect Bellevue's aesthetic quality and infrastructure investment from unnecessary degradation caused by the construction of telecommunication infrastructure.
- (3) UT-43. Encourage consolidation on existing facilities where reasonably feasible and where such consolidation leads to fewer impacts than would construction of separate facilities.
- (4) UT-55. Require the placement of personal wireless communication facilities in a manner that minimizes the adverse impacts on adjacent land uses.
- (5) UT-59. Recognize that personal wireless communication facilities will be deployed in all areas of the city to provide coverage and capacity consistent with the changing use of wireless technology. Minimize the attendant impacts, particularly the visual impacts, of personal wireless communication facility towers, lattice towers and structures by utilizing criteria for the design and location of such facilities that appropriately balance the need for wireless services and the impacts of the necessary facilities.
- (6) UT-60. Minimize visual impacts of personal wireless communication facilities by encouraging deployment in land use districts in the following preferred and descending order when possible, considering the provider's coverage needs: 1) Nonresidential land use districts, except Transition Areas; 2) Transition Areas; 3) Multifamily (R-20 and R-30) districts; and 4) and Park sites and Residential districts.
- (7) UT-61. Minimize visual impacts of personal wireless communication facilities by encouraging system designs in the following preferred and descending order: 1) attached to public facility structures, building mounted, or integrated with utility poles, light standards, and signal supports; 2) co-located on utility poles, light standards, signal supports; and 3) free standing towers.

AT&T's proposal is consistent with these policies, since significant efforts are being made to minimize visual intrusion, as summarized under criteria B below. They are also utilizing an existing WCF located on WSP's site while still achieving AT&T's coverage and capacity needs, as summarized under criterion E below. It is also worth noting that AT&T has also achieved consistency with UT-43 (*encourage consolidation*) since this lattice tower has been in existence since the 1970's and currently supports the co-location of three wireless carriers.

This new installation is considered the most preferred system design alternative among the options listed in LUC 20.20.195.D.2.a. The proposed configuration will be compatible with the existing character of this area with minimal changes to the existing lattice tower. No other preferred alternatives were identified within the search area given the fact that AT&T (previously GTE) has maintained a cellular tower on this site since 1997 per previous land use approval (97-6164 CE). The existing AT&T array is located at 98 feet on the 196 foot lattice tower. The array is located in between two wireless providers also located on this tower. AT&T will not modify its existing location on this tower but will simply remove the existing panels in favor of the proposed installation.

B. The design is compatible with and responds to the existing or intended character, appearance, quality of development and physical characteristics of the subject property and immediate vicinity.

Finding: To ensure that the facility is compatible with the subject property and surrounding vicinity, the proposal incorporates the following measures:

- (1) No modifications will be made to the existing lattice tower. It will remain in its current configuration.
- (2) The three LTE and six panel antennas will be flush-mounted in the same location where AT&T is currently located (98 feet) (see Section VI for related condition). The antennae will be required to be painted to match the lattice tower (see Section VI for related condition). The proposed antenna style, attachment method, and paint treatment will result in a facility that respects the lattice tower and neighborhood.
- (3) The ancillary equipment will be located within an existing storage compound at the base of the transmission tower.
- (4) The associated coax and cabling will be mounted on the leg of the transmission tower and pulled tight (see sheet A-4). The lines will match the color of the existing tower to blend in with the legs of the tower. See Section VI for related condition.

C. The administrative conditional use will be served by adequate public facilities including streets, fire protection, and utilities

Finding: The proposed facility will be located on the WSP's property. The site is already served by adequate public facilities including streets and fire protection. Transportation has included one condition on this proposal requiring that a Right-of-Way Use Permit will be required if any portion of the right of way is used for staging equipment etc. Additionally, each franchise utility must obtain their own permit; i.e. Qwest communications currently has fiber to this cell site; if access to that fiber is required, Qwest will need to obtain a Right of Way Use Permit to access their facilities; likewise with PSE as their facilities are also located along SE 28th St. See Section VI for related condition.

D. The administrative conditional use will not be materially detrimental to uses or property in the immediate vicinity of the subject property.

Finding: The project, as proposed, will not be materially detrimental to the adjacent neighborhood. To ensure that this facility is maintained, this report includes a condition of approval which requires that the facility be removed when it ceases to be operational or if it falls into disrepair. <u>See Section VI for related condition.</u>

E. The administrative conditional use complies with the applicable requirements of the Land Use Code.

<u>Finding</u>: The proposal meets all Land Use Code requirements applicable to non-exempt wireless communications facilities per LUC 20.20.195.D 1-9.

V. Decision

After conducting the various administrative reviews associated with this proposal, including applicable land use consistency, SEPA, and City Code and Standard compliance reviews, the Development Services Department does hereby **APPROVE** the proposal subject to the following conditions:

VI. Conditions of Approval

1. Paint to Match: The antennas and all ancillary components shall be painted to match the lattice tower.

REVIEWER: Toni Pratt, (425) 452-5374 AUTHORITY: LUC 20.20.195.B.1.a.v

2. Cabling: All cable connections to each antenna shall be mounted to the tower leg and pulled tight. The cabling shall also be painted to minimize visual impacts from the right-of-way and surrounding properties.

REVIEWER: Toni Pratt, (425) 452-5374 AUTHORITY: LUC 20.20.19S.B.1.a.iii

3. Flush-Mount: The antennas & microwave dishes shall be flush-mounted and no more than six inches from the face of the attachment bracket (H-frame).

REVIEWER: Toni Pratt, (425) 452-5374 AUTHORITY: LUC 20.20.195.B.1.a.v

4. Removal of Abandoned Sites: The owner of this facility shall provide the Director with copies of any notice of intent to cease operations that is provided to the Federal Communications Commission. The entire facility shall be removed by the facility owner within 90 days of the date it ceases to be operational, or if the facility falls into disrepair and is not maintained. Disrepair includes structural features, paint, or general lack of maintenance, which could result in safety or visual impacts.

REVIEWER: Toni Pratt, (425) 452-5374

AUTHORITY: LUC 20.20.195.D.8

- 5. Right of Way Use Permit: Right-of-Way Use Permit will be required if any portion of the right of way is used for staging equipment etc. Additionally, each franchise utility must obtain their own permit; i.e. Qwest communications currently has fiber to this cell site; if access to that fiber is required, Qwest will need to obtain a Right of Way Use Permit to access their facilities; likewise with PSE as their facilities are also located along SE 28th St.
 - a. Designated truck hauling routes.
 - b. Truck loading and unloading activities.
 - c. Hours of construction and hauling.
 - d. Continuity of pedestrian facilities.
 - e. Temporary traffic control and pedestrian detour routing for construction activities.
 - f. Street sweeping and maintenance during excavation and construction.
 - g. Location of construction fences.
 - h. Parking for construction workers.
 - i. Construction vehicles, equipment, and materials in the right of way.
 - j. All other construction activities as they affect the public street system.

REVIEWER: Dottie Schmidt, 425.452.2888 AUTHORITY: BCC 14.30 and 14.60.250

Attachments

Project Plans



PROPRIETARY INFORMATION





PHANTOM LAKE 2

2803 156TH AVE SE BELLEVUE, WA 98007

PROJECT DESCRIPTION:

ALL PROJECT DESCRIPTION:

ALL PROJECT DESCRIPTION:

ALL PROJECT DESCRIPTION DESC

PROJECT INFORMATION

VICINITY MAP 153rd Ave SE SE 23rd St 154th Ave SE 35 DAY HISST 156th Ave SE SE 25th St SE 24th St PAR 3TA ST SHEET DESCRIPTION

RF DETAILS
SCHEMATIC GROUNDING PLAN
GROUNDING DETAILS

SITE LOCATION: (BASED ON NAD 83):

SITE ACQUISITION:
PACIFIC TELECOM SERVICES, U
111 S. JACKSON ST # 200
SEATLE, WA 98104
CONTACT: KATIE KENNEY
PH: (206) 342-6382

FC

ZONING AGENT:
PAGIFIC TELECOM SERVICES, LLC
111 S. JACKSON ST # 200
SEATILE, WA 98104
CONTACT: SUNKY AUSINK
PH: (206) 446-0448

BUILDING CODE: 2009 IBC/2010 STRUCTURAL CONSTRUCTION TYPE: IIB CCUPANCY: S-2 NON: CITY OF BELLEVUE

USE: TELECOMMUNICATIONS FACILITY

D USE: TELECOMMUNICATIONS FACILITY

TOWER OWNER:
WASHINGTON STATE PATROL
CONTACT: JOHN WOODCOCK
PH: (425) 401-7805

PROPERTY OWNER:
WASHINGTON STATE PATROL
CONTACT: JOHN WOODCOCK
PH: (425) 401-7805

TEAM LEAD:
WESTOWER COMMUNICATIONS
7525 SE 24th ST, #487
MERCER ISLAND, WA 98040
PH: (206) 235-4118

DRAWING INDEX LEGAL DESCRIPTION

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DRIVING DIRECTIONS

RICHARD B. HALL AM
PACIFIC TELECOM SERVICES, LLC
111 S. MOCKSON ST # 200
SKATILE WA 9810-4
CONTACT: PAUL DANNEBERG
PH: (206) 464-4413
EMAIL: POANEBERGOPTSWA.COM

PACIFIC TELECOM SERVICES, LLC 111 S JACKSON ST #200 SEATTLE WA 98104 CONTACT: KATIE KENNEY PH: (206) 342-6382 PROJECT CONSULTANT

> GOODMAN NETWORKS 8815 122ND AVE NE KIRKLAND, WA 98033 PH: (425) 636-3619 PROJECT CONSULTANT

CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN

PROJECT ARCHITECT PROJECT TEAM

PHANTOM LAKE 2

2803 156TH AVE SE BELLEVUE, WA 98007

EXPIRATION DATE OF THE LICENSE: 08/20/13

STATE OF WASHINGTON REGISTERED ARCHITECT

8828

CONSTRUCTION DRAWINGS

REVISED FINAL

PACIFIC TELECOM SERVICES,

WA6431

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- THE CONTRACTOR SHALL SUPERNISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACTOR SHALL BE SCALE SECURISES. THE CONTRACTOR WEAKS METHODS TECHNIQUES, SECURISES, AND PROGEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
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- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT AND SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
- THE REFERENCES ON THE DRAWINGS ARE FOR CONVENIENCE ONLY AND SHALL NOT LIMIT THE APPLICATION OF ANY DRAWING OR DETAIL.

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- THE CONTRACTOR SHALL STUDY THE STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING PLANS AND CROSS CHECK THEIR DETAILS, NOTES, DIMENSIONS, AND ALL REQUIREMENTS PRIOR TO THE START OF ANY WORK,

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- ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT PREMISES AND SHALL BE LEFT IN A CLEAN (BROOM FINISH) CONDITION AT ALL TIMES BY EACH TRADE AS THEY PERFORM THEIR OWN PORTION OF THE WORK.
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- CONTRACTOR TO REPLACE AND/OR REPOUTE ANY EXISTING UNDERGROUND UTILITIES ENCOUNTERED DURING TRENCHING AND GENERAL CONSTRUCTION.
- WHEN APPLICABLE, CONTRACTOR IS RESPONSIBLE TO CALL, COORDINATE AND MAKE ARRANGEMENTS FOR ROW MID/OR PRIVATE REPORTERY LOCATE. MODIFICATION CONSTRUCTION; BASED ON SPECIFIC SITE REQUIREMENTS.
- SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION. CONTRACTORS TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO TOWER NETWORK CARRIER ALONG WITH REDUNED CONSTRUCTION SET
- CONTRACTOR SHALL DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (REDUNING) THE APPROVED CONSTRUCTION SET AND SUBMITING THE REDUNIED ALONG WITH PHOTOGRAPHS PER NETWORK CARRIER REQUIREMENTS.

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- ALL EXISTING CONSTRUCTION, EQUIPMENT, AND FINSHES, NOTED TO BE RELIANCED SHALL BECKNUE THE PROPERTY OF THE CONTRACTION AND LINES FROM THE STEEL WITH THE FOLLOWING EXCEPTIONS.

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- CONTRACTOR TO PROVIDE A PORTIGHE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2 -4-10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
- ALL GLASS AND GLAZING IS TO COMPLY WITH CHAPTER 54 OF THE U.S. CONSILIER SAFTY COMMISSION SAFTY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS (42 FR 1428, CFR PART 1201) AND LOCAL SECURITY REQUIREMENTS. THE PROJECT, WHEN COMPLETED, SHALL COMPLY WITH LOCAL SECURITY CODES AND TITLE-24 ENERGY CONSERVATION REQUIREMENTS. (TITLE-24 WHEN APPLICABLE)
- CONTRACTOR SHALL HAKE NECESSARY PROMISIONS TO PROTECT EXISTING MERIORIDADES, EDITOR CONSTRUCTION HERON COMPLETION OF WORK CONTRACTOR SHALL REPIRE AND MAKEE THAT HAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- CONTRACTOR SHALL KEEP CENERAL WORK AREA CLEM AND HAZHGO FREE DIRHK CONSTRUCTION AND DESDECT OF ALL DRIFT, DEBRIS, AND RIBBIS. CONTRACTOR SHALL RELING EDIFFUENT OF SPECIFED AS REJAINANCE ON THE PROPERTY OF SPECIFES AS REJAINANCE THE SHALL OF LEFT IN CLEMA COMMON AND FREE FROM PAINT SPOTS, DUST, OR SAMDOES OF ANY NATURE.
- NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SMALL MATCH IN FORM TEXTURE, PAISH, AND IN MATERIALS EXCEPT AS NOTED IN THE PLAN AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING, BLOCKING, AND/OR SLEDNES REQUIRED FOR THE INSTALLATION OF FATURES, ACCHANICAL EQUIPMENT, PLUMBING, HARDWARE, AND FINISH ITEMS TO INSURE A PROPER AND COMPLETE JOB.
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- THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, DIRT, AND FIRE AS REQUIRED BY THE GOVERNING AGENCIES.
- WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AND/OR REVISIONS AMMABLE AS REQUIRED BY THE COVERNING ACENCY RESPONSIBLE FOR RECORDING THE RESULTS.
- GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN THE CONTRACTOR IS RESPONSIBLE FOR THE STORAGE OF ALL MATERIALS AND SHALL NOT DO SO ON PUBLIC PROPERTY WITHOUT A PERMIT TO DO SO FROM THE COVERNING AGENCIES FOR THIS PURPOSE.
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 RECOLUCIO ESTRIBUETES DE TRAKE.
- NOT USED.

- ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY TOWER NETWORK CARRIER CONSTRUCTION MANAGER.
- ALL REALTY, MERSON, CONTRICTOR SHALL BE RESPONDED FOR MO SHALL REALTY
 AND/OR FAULTY WERRANGER PRO ONE (1) YEAR AFTER HE REALEST IS
 COMPETE MAY DECEPTED UNCER HIS CONTRICT, INCREMENTED HIS STREET
 HE CONTRICT ENTERN HE OWNER MAY HE CONTRICTOR SHALL PRINCES A MOST DEMONSOR
 ASSESSED FOR SHARL SHAR
- THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE SAFETY OF THE OWNER'S EMPLOYEES, WORKMEN, AND ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
- 54. NOT USED

- IN THE CASE OF RODITION SCHULTIONS FOR EQUIPMENT MAY/OR ANTONA FAMES WHERE PRETENTION OF DESTINA CONTING ANTENALS COCUR. THE GOODEN CONTROL CONTING ANTENALS COCUR. THE GOODEN CONTROL CONTING THE GOODEN CONTROL CONTING TO THE CONTROL CONTROL AND MAY THE WORK. THE RODING CONTROL CONTROL TO WHERE AND THE RODITION OF AND OWNED RECEIPMENT OF RODITION OF AND OWNED RECEIPMENT.

GENERAL CONTRACTOR IS TO COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED, CONTRACTOR TO REPORT POWER INSTALLATION COORDINATION SOLUTION(S) TO RETWORK CARRIER REPRESENTATIVE, PROJECT CONSTRUCTION MANAGER AND ARCHITECT.

SYMBOLS:

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- THE CONTRACTOR SHALL BE REQUIRED TO ANY FOR ALL NECESSARY REPUIRS AND/OR FEES WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT, SHALL BE FILED BY THE OWNER, OR HIS REPRESSIONED. CONTRACTOR SHALL BE FILED BY THE OWNER, OR HIS REPRESSIONED. CONTRACTOR SHALL BE FILED BY THE OWNER, OR HIS REPRESSIONED.
- TOWER NETWORK CARRIER WILL REVIEW AND APPROVE SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT. TOWER NETWORK CARRIER PROJECT APPROVAL OR A SEPARATE IEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
- ALL ANTENNAS MOUNTED ON ROOF SUPPORT FRAMES TO BE PROVIDED BY TOWER NETWORK CARRIER COMMUNICATIONS.
- CONTRACTION TO PROPODE TRENCH AS RECURRED TO INSTALL BEDTH ELECTRICAL AND TEXTHONIC WASDERSONIA CONVOIRT. (\$4.0 MC) FOR SCIE. WORKDERE, BACGFIL WITH CLEAN SOND AND COMPACT TO THE SATISSANCTION OF THE DISTRICTS INSECUENCE REPLACE ANNO HOUSE MITCHING WATERALS (GRASS, ASPAUT, CONCRETE, ETC.)
- CONTRACTOR TO PROMOE HEAVY STEEL PLATES AT OPEN TREMCHES FOR SAFETY AND TO PROTECT EXISTING GROUND SURFACES FROM HEAVY EQUIPMENT UTILIZED DURING CONSTRUCTION.
- CONTRACTOR TO PATCH AND REPAIR ALL GROUND SUBFACES WITHIN THE CONSTRUCTION AREA, AS NECESSARY TO PROVIDE A UNIFORM SURFACE AND MAINTAIN EXISTING SURFACE DRAINAGE SLOPES.
- CONTRACTOR TO REPLACE LANDSCAPE VEGETATION THAT WAS DAMAGED DUE TO CONSTRUCTION, AND TO MODIFY REMAINING REPARTION LINES TO OPERATING CONDITION, PROVIDING FULL COVERAGE TO IMPACTED AREAS.
- I. N. HE CASE OF ROOTIDE SOUTHONS WITH THE NOTALITY OF ARTHWAS WITHIN CONCELLED SHOULD SEPORT FRAMES OR THROODS, THE CASEAU, CONTRACTOR SHALL COORDINATE WITHIN THE FIRE DESIGNATION OF ARTHWAS WITHIN COORDINATE WITHIN COORDINATE CONTRACTOR SHALL COORDINATE CONTRACTOR SHALL CONTRACTOR SHALL CONTRACTOR SHALL CONTRACTOR SHALL SHAPPED SCHOOL FIRE CONTRACTOR SHALL SHAPPED SCHOOL SHAPPED SHALL SHAPPED SHAPPED
- IN THE CASE OF ROUTH'S SOUTHOSE THE EDURANT MAD/OF METENN FRAME.

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- GROUND ROD GROUND BUS BAR MECHANICAL GRND. CONN
- CADWELD GROUND ACCESS WELL
- ELECTRIC BOX
- TELEPHONE BOX
- FND. MONUMENT LIGHT POLE
- SPOT ELEVATION
- SET POINT

NOT FOR CONSTRUCTION UNLESS

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SAND CRAVEL

PLYWOOD

STEEL STEEL WOOD BLOCKING WOOD CONTINUOUS

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THE BEART

E) BRICK CONCRETE

OVERHEAD SERVICE CONDUCTORS COAXIAL CABLE ELECTRICAL CONDUIT TELEPHONE CONDUIT GROUND CONDUCTOR WORK POINT MATCH LINE PROPERTY/LEASE LINE CENTERLINE SECTION REFERENCE ELEVATION REFERENCE DETAIL REFERENCE GRID REFERENCE

(E) MASONRY TELES GROUT OR PLASTER





PACIFIC TELECOM SERVICES,

2803 156TH AVE SE BELLEVUE, WA 98007

DESIGN CRITERIA:

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1. THE STRUCTURAL DESIGN OF THIS PROJECT IS IN ACCORDANCE WITH THE PROJECT IS IN ACCORDANC CONCRETE NOTES: CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS: RENFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy = 60,000 PS; WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, SPIRAL RENFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM 615, GRADE 60, fy = 60,000 PS; CONSETT SHALL BE MEDIC PROPERTION. CONFIDENT AND PLACED IN COMPANIES WITH SECTION 1903, MISS AND SECTION FOR SECTION 1903, MISS AND SECTI NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER ALSING DI ATENCE CITTINEN GE DOUG NO LEGE MENTALE MENTALE DE L'ACTOR CONSETTE MENTALE FTGS & OTHER UNFORMED SURFACES CAST AGAINST & PERMANENTLY EXPOSED TO EARTH. REPRESENCE SIZE SHALL BE DEFALED (MCLIMOR, CHOCKS, AND BENGS) N.
REPRESENCE HAS DEFAULTED WITH CHOCK TO A STREET HE SHALL BE SHAL STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SOON, PABRICATION, AE PRECITION SHALL BE BASED ON INTERPRANCE AND ASSESSION ASSESSION SECTION 2203.2 OF THE INTERPANTIONS, BULLIANG CODE. BUILDING NOTES: ALL WELDING SHALL BE IN CONFORMING WITH ALSO, AND AWAS, STANDARDS AND SHALL BE PERSONALD USING EDON ACLETRORDES, ANLY PER CAMPAGE USING EDON ACLETRORDES, ANLY PER CAMPAGE AND PERSONAL SHALL BE LESS. ALL COMPLETE JOINT EDICITATION GROOM PECLES SHALL BE LAWE WITH A FILLER MICETAL THAT MAS A MANUAL OWN TOLDHARDS OF 20 TH-LES AT —20 DESIRES, F, SETEMBARD PLANS LOSSEPOLINON OR MANUFACTURES CERTIFICATION. PROVIDE SUPPORTS FOR THE ANTEWA COAX CABLES TO THE ELEVATION OF ALL MITTAL AND FUTURE ANTEWAS. ANTEWAS COAX CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS. VERIFICATION THAT THE EXISTING APPLICABLE BUILDING, TOWER, POLE OR WATER TANK CAN SUPPORT THE PROPOSED ANTENIA LOADING SHALL BE PERFORMED BY A REGISTERED STRUCTURAL ENGINEER. WIDE FLANCE SHAPES SHALL CONFORM TO KATM 4892. F! = \$0 KS. OTHER ROLLED SHAPES NOLUNION EPHERS, SHALL CONFORM TO ASTM ASK, F; = \$0 KS. STEAL DRE SHALL CONFORM TO ASTM A-23, THEFE E OR S, GRADE B, F; = 35 KS. STRUCTURE, TIBMES SHALL CONFORM TO ASTM A323. = 46 KSI. CONNECTION BOLTS SHALL CONFORM TO ASTM A323. A. EITHER AISC-LRFD, AISC 355, OR AISC-HSS & SECTION 2205.2 OF THE INT'L BUILDING CODE. MARCH 7, 2000 AISC CODE OF STANDARD PRACTICE FOR STEEL BULDINGS & BRIDGES, AMENDED AS NOTED IN THE CONTRACT DOCUMENTS AND BY THE DELETION OF PARAGRAPH 4.4.1. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A480 BOLTS. RETERONCED DISMA RECLAMON/STANDARDS SMALL BE REVENED BY TOMES
BERTINGS.
EQUIPMENT INSTITUES, AND TOMES/ARDO' TOE COMPINATIONS/SUBCONTRACTIONS
SECOND SCIENCE PROJECTION OF TOMES/ARDO'S TOP COMPINED SIGNATIONS
SECOND SCIENCE PROJECTION OF TOTAL CHITEMA AND
PRACTICES. REFER TO RODFTOP WORK AREA SAFETY PROTOCOL NATIONAL ASSOCIATION OF TOWER ERECTORS 2000 PUBLICATION FALL PROTECTION METHODS AND EQUIPMENT ROOF TOP INSTALLATIONS SOILS COMPLANCE PRIOR TO FOUNDATION INSPECTION CONCRETE OVER 2400 PSI (5½ SACK MIX) AT 28 DAYS CONCRETE PLACEMENT AT SLAB ON GRADE WRITTEN CERTIFICATION FOR PROPER PLACEMENT OF REINFORCEMENTS AT SLAB ON GRADE SAUPTILL DOCUMOTS FOR OCCURRED SHAPTIN, ITOLS SAUL, ER SAUPTICE TO THE ADMITTED THE ADMITTED OR DOCUMENT OR ECONOMISMOS AND AND ADMITTED THE ADMITTED OR DOCUMENT OF THE ADMITTED OR ECONOMISMOS AND ADMITTED OR ECONOMISMOS ADMITTED OR ECONOMISMOS AND ADMITTED OR ECONOMISMOS AND ADMITTED OR ECONOMISMOS ADMITTED OR ECONOMISMOS AND ADMITTED OR ECONOMISMOS A FOUNDATION EXCAVATION AND FILL INCLUDING UTILITY TRENCHES CERTIFICATION OF BUILDING PAO, FOUNDATION AND FILL BY THE GEOTECHNICAL ENGINEER OF THE RECORD INSTRUMEN OF CONSTRUMENT AND FOR HAZARDS
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COMPORTOR SECTION AND ANY ADDRESS OWN ADDRESS OWN AND A APPLICATION AND ADDRESS OWN ADDRESS OWN AND A ADDRESS OWN A MONTHLY SAFETY INSPECTION AND MAINTENANCE OF THE FALL PROTECTION EQUIPMENT SHALL OCCUR BY THE SAFETY COMMITTEE REPRESENTATIVES, INCLUDING: SAFETY BELTS SHALL BE WORN BY ALL CONSTRUCTION WORKERS. SAFETY LINE LENGTH SHALL BE SET ALLOWING CONSTRUCTION WORKER TO REACH EDGE OF ROOF, BUT NOT BEYOND. SAFETY LINE SHALL BE MINIMUM ½" DIAMETER NYLON, WITH A NOMINAL TENSILE STRENGTH OF 5400 LBS. CONSTRUCTION INVOLVING WORKERS TO APPROACH WITHIN 6" OR LESS OF AN UNPROTECTED ROOF EDGE, REQUIRES WORKERS TO USE SAFETY LINE. SAFETY MONTOR SHALL WARN CONSTRUCTION WORKERS OF HAZARDS (I.E. BACKING UP TOWARD A ROOF EDGE, ETC.) OR UNSAFE ACTIVITIES. THE SAFETY MONTOR MUST BE ON THE SAME ROOF AND WITHIN VISUAL AND YERBAL DISTANCE OF THE CONSTRUCTION WORKERS. FOR WORK IS BEING PERFORMED WITHIN 25' OF AN IMPROTECTED ROOF EDGE. THE CONSTRUCTION SUPERVISOR SHALL DESIGNATE A TRAINED SAFETY MONITOR TO OBSERNE THE MOVEMENTS AND ACTIVITIES OF THE CONSTRUCTION WORKERS. SAFETY LINE SHALL BE ATTACHED TO A SUBSTANTIAL MEMBER OF THE STRUCTURE. INSPECTIONS REQUIRED: ANCHOR BOLTS INSTALLATION AND PLACEMENT IN CONCRETE ADHESIVE BOLTS IN CONCRETE OR MASONRY URRIFICATIONS OF MILL REPORT
UDENTIFICATION OF STEEL AND AT JOB SITE ☐ HIGH STRENGTH BOLTING SYMBOLS: 世市出市出市出市 EARTH S<u>SOSOSOSOSOS</u> GRAVEL \otimes SAND CONCRETE STEEL STEEL E) BRICK THE PLYWOOD O/H OVERHEAD SERVICE CONDUCTORS WOOD BLOCKING WOOD CONTINUOUS (E) MASONRY 0 ⇔ \neg m \otimes $\widehat{\mathbb{D}}$ 3 SEESE GROUT OR PLASTER - ELECTRICAL CONDUIT SECTION REFERENCE EXISTING NEW ANTENNA ELEVATION REFERENC SET POINT GROUND ROD MGN GROUND CONDUCTOR DETAIL REFERENCE SPOT ELEVATION FND. MONUMENT CADWELD GROUND BUS BAR EXISTING ANTENNA COAXIAL CABLE TELEPHONE CONDUIT WORK POINT MATCH LINE PROPERTY/LEASE LINE CENTERLINE GRID REFERENCE DICHT POLE TELEPHONE BOX ELECTRIC BOX GROUND ACCESS WELL MECHANICAL GRND. CONN SERVED - DAT - RESPRECTIVE

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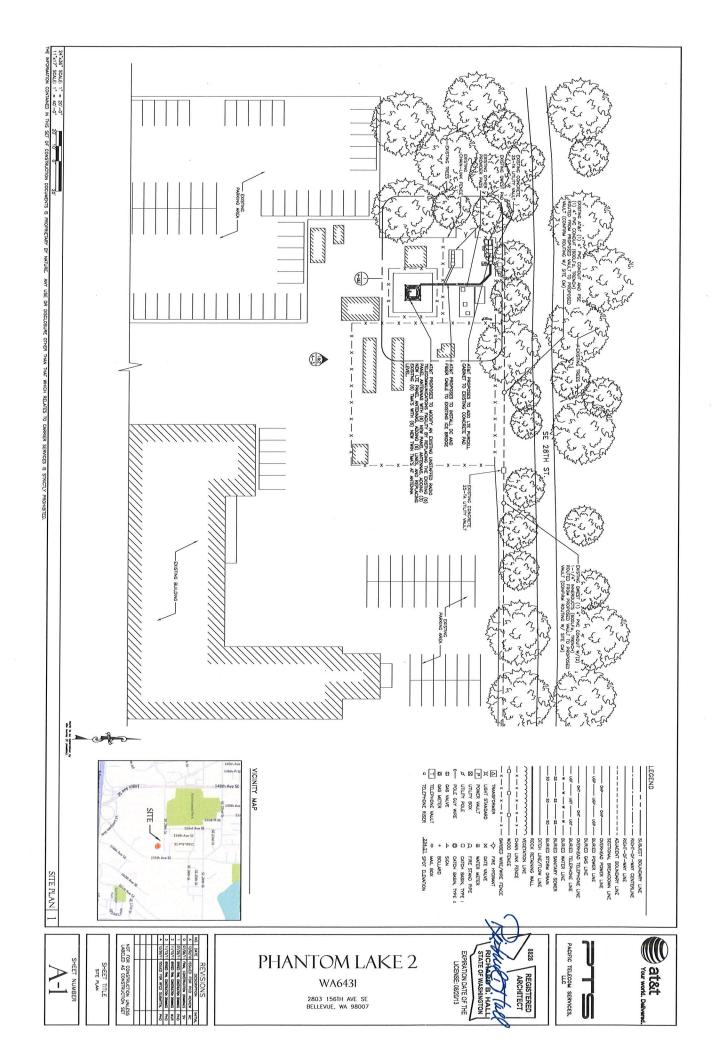
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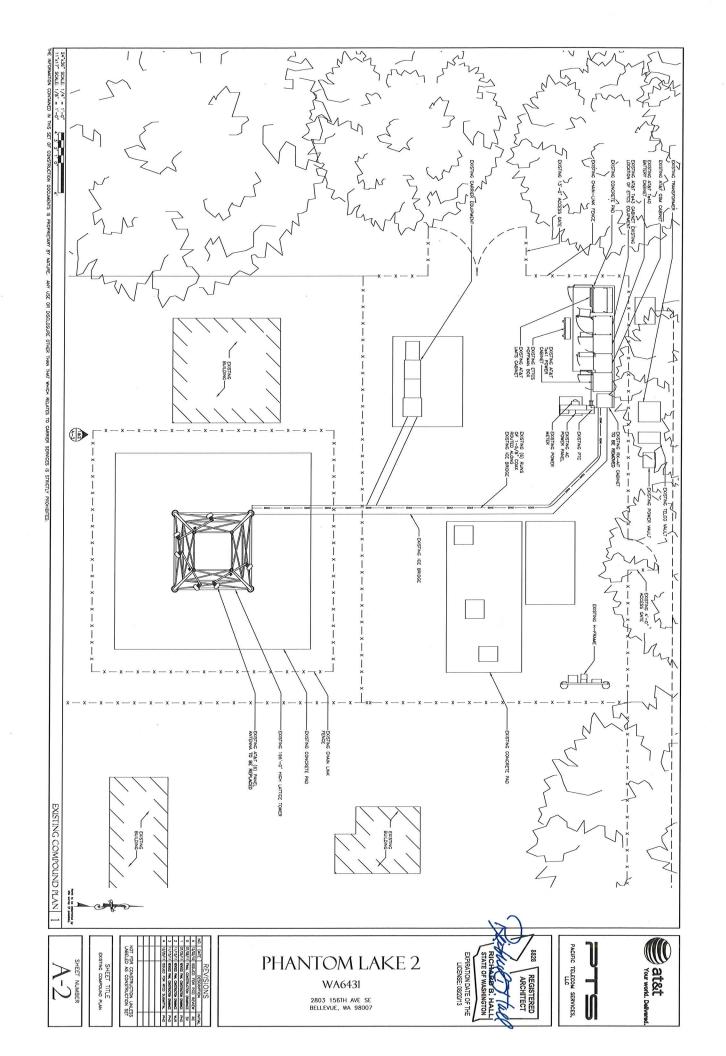
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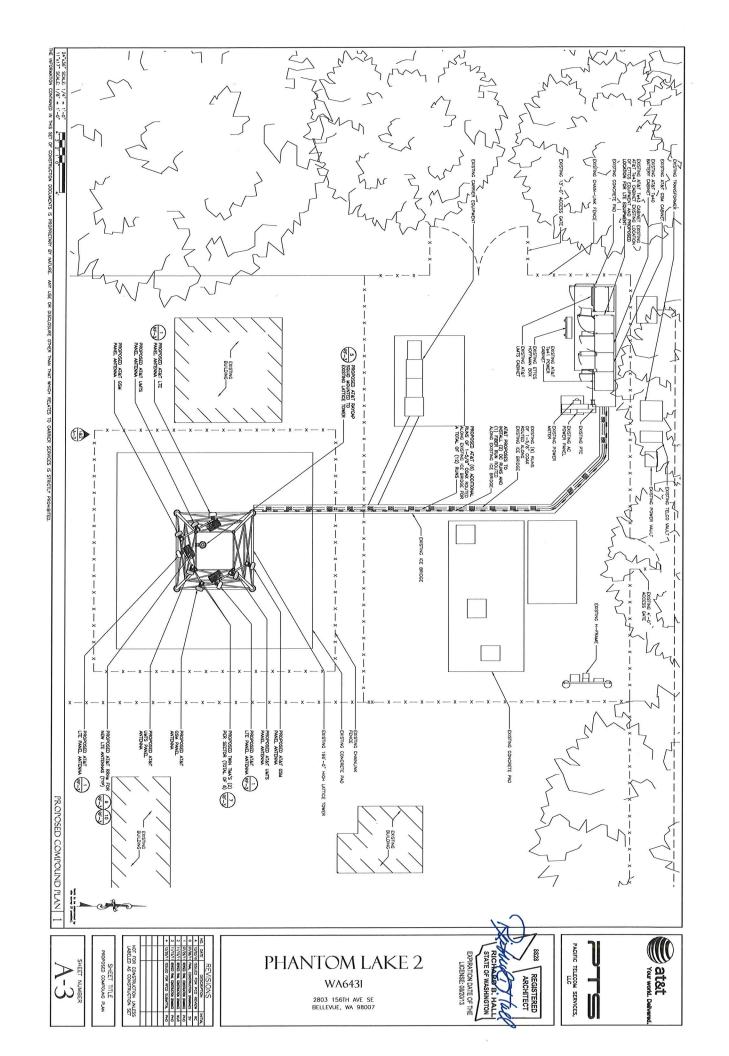
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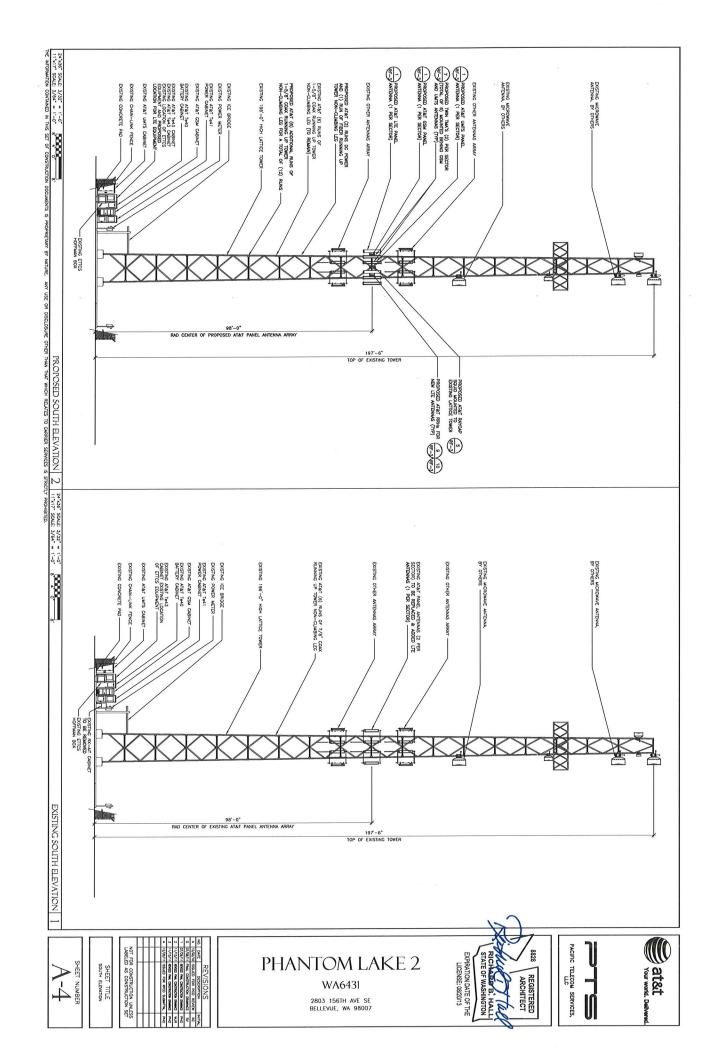
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Your world. Dallver PACIFIC TELECOM SERVICES, VABELED AS CONSTRUCTION SET SHEET TITLE 8828 EXPIRATION DATE OF THE LICENSE: 08/20/13 PHANTOM LAKE 2 STATE OF WASHINGTON REGISTERED ARCHITECT WA6431 2803 156TH AVE SE BELLEVUE, WA 98007

CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CHRIEFE SERVICES IS STRICTLY PROHIBITED









SWEEP TEST REQUIREMENTS: ATER WRELES SCATE WAS ANTENNA AND TRANSMISSION UNE TEST REQUIREMENTS

REQUIRED EQUIPMENT WILTON / AMRITSU STE MATTER S331A/B/C OR EQUINALIST OPEN, SHORE (...)

DAN FRAME TO N. TIPE MAE ADMITSE (LOW LOSS)

DAN MAE TO N. TIPE MAE ADMITSE (LOW LOSS)

DAN FRAME TO DAN FRAME ADMITSE (LOW LOSS)

PANCE STALE ECOLE

TRACE-ROSE MITTANETERS MATTER LOTTER (LOW LOSS)

PCS FREQUENCY BAND 1850MHZ-1990MHZ REQUENCIES TO BE USED

TRANSMISSION LINE AND ANTENNA SYSTEM TEST RECEIVE FREQUENCY 1850MHZ-1860MHZ RANSMIT FREQUENCEY 1930MHZ-1940MHZ

MESERION LOSS / CABLE LOSS
ANTENNA / TRANSESSION UNE DISTANCE TO FAULT (RL)
ANTENNA SYSTEM RETURN LOSS DETANCE TO FAULT (RL)
ANTENNA SYSTEM WITH OLPPLEER / TAM / ANTENNAETURN LOSS
TRANSMISSION LINE COCHINAINT TEST

NSERTION LOSS

THIS TEST WILL MEASURE THE CHAILE LOSS OF THE TRANSMISSION LINE AND LUMPERS BETWEEN THE CHAINET AND THE ANTENNA TEST FREQUENCIES: F1=1850 F2=1990

THIS TEST IS A PERFORMANCE VERIFICATION AND FAILURE ANALYSIS TOOL FOR THE ANTENNA, TRANSMISSION UNES AND CONNECTORS.
TEST FREDURICES: F1=1850 F2=1990 ANTENNA/TRANSMISSION LINE DISTANCE TO FAULT (RL)

1. CONTROL MER PROCURDINGS TO BE USED N F1 NO 72.

2. RE-CALMERNET EIN TECHNISM, TO THE METHON (BPACES TAM) AND THE CONTROL THE TWO JAMPESS COMET TO THE METHON (BPACES TAM) AND THE CONTROL THE TWO JAMPESS COMET TO THE LOW TO THE ON THE CONTROL THE TWO JAMPESS COMET TO THE LOW TO THE TWO THE CONTROL THE TWO TH # GETTO B

REPEAT STEPS 10 THROUGH 13 FOR THE REST OF THE ANTENNAS AND TRANSMISSION LINES.

ECTOR 'G'

INTENNA SYSTEM RETURN LOSS

TEST MEASURES THE RL OF THE TRANSMISSION TERMINATING INTO THE TRANSMISSION TERMINATING INTO THE TRANSMISSION TERMINATING INTO THE TRECUENCIES: FI = 1850 F2=1990

1. BOTES THE PROCESSED OF EAST N F1 AND F2.

2. RECOURSET THE YOU JUMPES COME OF THE ARTENAN (BPASS TAA) AND THE
3. CONNECT THE YOU JUMPES COME OF THE ARTENAN (BPASS TAA) AND THE
3. CONNECT THE YOU JUMPES COME OF THE ARTENAN (PLLOW/RED) BEFORE
4. CORNECT TEST EDUARDAY TO THE ARTENAN (PLLOW/RED) BEFORE
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RMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE.

ANTENNA SYSTEM WITH DUPLEXER AND TMA RETURN LOSS THE REST MEASURES THE RE OF THE COMPLETE ANTENNA NETWORK ON THE TX PARK. TEST FREQUENCES: F1=1930 F2=1940

1. CONTENT THE PRECURENCES TO BE CASED NET AND PZ.

2. RE-CAMBERNET ETS EGUIPMENT.

3. RELONG (MY (7) TO DAN (9) PROM BOTT TOP AND BOTTOM LUMBERS.

4. CONNECT THE MARKET TO MAK AND BOTTOM LUMBERS.

4. CONNECT THE MARKET TO MAK AND BOTTOM LUMBERS.

5. CONNECT THE MARKET TO MAK AND LOTTOM LUMBERS.

5. CONNECT THE MARKET TO MAKE AND LOTTOM LUMBERS.

6. PERFORM LUFGAL RECORD (TO TO T. A.)** WAVE-CAUDE MAS A R. LESS THAN LUTSAN MARKET MAKE AND LOTTOM LUMBERS.

7. VERTE AND LOTTOM LUMBERS.

8. LIGHT MARKET MAKET AND SECT. THAN AND LOTTOM LUMBERS.

10. RECORD TEST RELIEST ON SECTE THAN SECT. TH

ANTENNA SYSTEM WITH DUPLEXER AND TMA RETURN LOSS

THIS TEST MEASURES THE RL OF THE COMPLETE ANTENNA NETWORK ON THE RX PATH. REMINDER THE TEST EQUIPMENT WILL TERMINATE INTO THE TMA ON THE RX PATH.
TEST FREQUENCIES: F1=1850 F2=1860

2. RECALIBRATE EST EXPLOSES TO RE LOSED N. F1 AND F2.
2. RECALIBRATE EST EXPLANCE.
3. RELOVER, DN. (F) TO DN (F) FROM BOTH OF AND BOTTOM JUMPESS.
4. CONNECT THE JUMPESS TO JUMPESS TO JUMPESS.
4. CONNECT THE JUMPESS TO JUMPESS TO JUMPESS.
5. PERFORM JUMPESS TO JUMPESS TO JUMPESS.
6. PERFORM JUMPESS TO JUMPESS TO JUMPESS TO JUMPESS.
7. VERTON METSON JUMPESS TO JU

TRANSMISSION LINE CONTINUITY TEST

THS TEST WILL VERIFY THE CONTINUITY OF THE RX PATH BETWEEN THE BTS AND THE TMA FIR THE 15 VDC NETWORK.

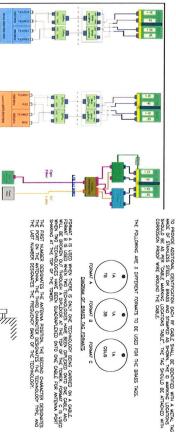
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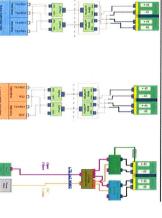
CABLE MARKING TAGS

at&t

ARE 3 DIFFERENT FORMATS TO BE USED FOR THE BRASS TAGS.



ECTOR 'B'



ALL RF CABLE SHALL BE WARKED AS PER CABLE WARKING LOCATIONS TABLE BELOW:	STACKED ANTENNA	SEPARATION TO SEPARATION	UNTS ANTENNA
WARKING LOCATIONS TABLE BELOW:	ARRAYS	SECTION 1 RE CHARLES ALL HARD AND ALL AND AND ALL AN	

END OF JUMPER AT BTS CABINET	×	'n
CABLE ENTRY PORT ON THE INTERIOR OF THE SHELTER (AS APPLICABLE).	×	'n
END OF THE MAIN COAX RUN WHERE THE COAXIAL CABLE AND JUMPER TO THE ANTENNA ARE CONNECTED.	×	
LOCATIONS	TAG	Š
CABLE MARKING LOCATIONS		

CABLE COLOR MARKING
IN ADDITION TO THE MALEDATION OF THE BRASS TAG, CONTRACTORS SHALL USE ONE BAYO
OF COLOR TAPE PER CABLE FOR SECTOR DESCANTON LIBELING THE COLORS SHALL BE AS FOLLOWS: SECTOR A: RED SECTOR B: BLUE SECTOR C: GREEN

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

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THE SECTOR DESIGNATIONS SHALL BE MARKED AS DESCIRBED ON THE CURRENT RF DATA SHEET AT THE TIME OF INTALIATION, RF DATA SHEET IS TO REMAIN POSTED AT EVERY SITE.

COAX BOOT SPECIFICATION
SITTY BOOS TO SELL COAX WITHIN 6" CONDUITS SHALL BE:
NO-150/XX(28-54)/20 SEE COAX CONDUIT DAT SEAL, DETAL, (WHEN APPLICABLE) \overline{z}

CONTRACTOR SHALL USE THE ABOVE PRODUCTS OR APPROVED EQUAL

WA6431

PHANTOM LAKE 2

2803 156TH AVE SE BELLEVUE, WA 98007

8828

STATE OF WASHINGTON REGISTERED ARCHITECT

PACIFIC TELECOM SERVICES, LLC

EXPIRATION DATE OF THE LICENSE: 08/20/13

